TECHNICAL DATA SHEET

QH QUANTOL™ MAX 4518 M RD

FORMERLY QUAKERTEK® VERKOMAX R-1000

OFF-ROAD CALCIUM SULFONATE GREASE

QH QUANTOL™ MAX 4518 M RD grease is a combination of a high-viscosity semi-synthetic base oil with a special calcium-sulphonate thickener and the most advanced additives. This formulation yields a series of advantages which, when combined with an adequate dosage, exponentially increase the performance of mechanisms.

QH QUANTOL™ MAX 4518 M RD grease features high resistance to shock and vibratory loads owing to its unique combination of special thickener, EP additives and light-coloured solid lubricants. The absence of black solid lubricants allows lubricated mechanisms to operate in a cleaner environment.

Applications

QH QUANTOL™ MAX 4518 M RD is a grease specifically designed to lubricate all grease points in off-road, mining and agricultural machinery operating in very dusty environments or in contact with water. Its high dynamic viscosity creates a grease seal at the edges of the bushings that prevents abrasive particles from entering the mechanism, increasing its useful life especially in bronze bushings, more likely to suffer premature wear.

Suitable for plain and rolling contact bearings, movable joints or open gears, operating under low-speed and high-load conditions in polluted environments, either by solid particles (i.e. dust) or by liquids within wide aggressiveness ranges (corrosive or alkaline), protecting such mechanisms against corrosion and rust. Additionally, this grease is capable of maintaining an optimal state of lubrication under occasional high temperature conditions, having an application range of -20 to + 140°C.

Due to its resistance to salt water and its very high tenacity, it is especially indicated for lubricating plain and rolling contact bearings, guides, racks, floodgates and pitch wheels in maritime and port machinery, since its exceptionally high resistance to water flows allows it to stay at the lubrication point.

Recommendations For Use

May be applied by brush or by hand-operated grease pump.

Benefits

- Excellent resistance to vibrations and shocks
- Highly adhesive
- Excellent oxidation, corrosion and rust protection
- Its exceptionally high resistance to water flows allows it to stay at the lubrication point

Storage

Store in original, closed container protected from direct sunlight in a dry, cool and well ventilated area. Avoid outdoor storage.

Health, Safety, and Handling

Please consult the Safety Data Sheet (SDS) for information on storage, safe handling and disposal. The conditions or methods of handling, storage, use and disposal of the product are beyond our reasonable control - we assume no liability for any ineffectiveness of the product or any injury or damage, arising out of or in connection with these conditions.

Performance Overview

PERFORMANCE	RATING
High temperature resistance	+++
Load carrying capacity	++++
High speed suitability	+
Water resistance	+++++

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OFF-ROAD CALCIUM SULFONATE GREASE

Properties

PROPERTY	TYPICAL VALUE	UNIT
Colour	Red	
Density at 20°C, ASTM D-891	0.95	
Thickener type	Calcium sulphonate	
Solid additives	Yes	
Base oil, viscosity at 40°C, ASTM D-445	ISO 1000	mm²/s
Worked penetration 60 strokes ASTM D-217	275	1/10mm
Dropping point, METTLER FP-83HT	260	°C
Water spray off, ASTM D-4049	8	%
Emcor test, DIN 51502	0-0	
Four ball machine		
Wear scar (1min/80kg), IP-239, Ø	0.4	mm
Weld point, IP-239	480	kg
FAG FE9, test DIN 51821-2/A/1500/6000-130, F50	368	h
FAG FE8, test DIN 51819-2/B/7.5/80/120°C		
Rollers weight loss, mw50	< 5	mg
Cage weight loss, mk50	< 15	mg

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